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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/644,410	
	Filing Date	August 20, 2003	
	First Named Inventor	Jay M. Short	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	11	Attorney Docket Number	D1460-32US

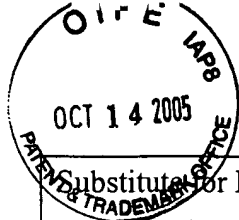
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Substitute for Form 1449/PTO
INFORMATION DISCLOSURE STATEMENT BY
APPLICANT

(Use as many sheets as necessary)

Application Number: 10/644,410

Filing Date: August 20, 2003

First Named Inventor: Short

Docket Number: D1460-32US

Examiner Name

Art Unit To Be Assigned

Mailing Date: October 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Publication Date (MM-DD-YYYY)	Document No. Number-Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	09/90	4,959,312	Sirotkin	
	2.	06/91	5,023,171	Ho et al.	
	3.	03/92	5,096,815	Ladner et al.	
	4.	03/93	5,198,346	Ladner et al.	
	5.	06/93	5,223,409	Ladner et al.	
	6.	01/94	5,279,952	Wu	
	7.	02/95	5,389,537	Raines et al.	
	8.	03/96	5,498,531	Jarrell	
	9.	08/97	5,658,727	Barbas et al.	
	10.	06/98	5,759,817	Barbas	
	11.	08/98	5,789,166	Bauer et al.	
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	13.	02/99	5,866,363	Pieczenik	
	14.	03/99	5,885,577	Alvarez	
	15.	03/99	5,885,827	Wabl et al.	
	16.	08/99	5,932,419	Bauer et al.	
	17.	08/99	5,945,329	Breddam et al.	
	18.	08/00	6,096,548	Stemmer	
	19.	09/00	6,117,679	Stemmer	
	20.	12/00	6,165,793	Stemmer	
	21.	01/01	6,180,406	Stemmer	
	22.	08/01	6,277,638	Stemmer	
	23.	09/01	6,291,158	Winter et al.	
	24.	11/01	6,319,714	Crameri et al.	

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number: 10/644,410	Filing Date: August 20, 2003
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	25.	11/01	6,323,030	Stemmer	
	26.	01/02	6,335,160	Patten et al.	
	27.	01/02	6,337,186	Krebber	
	28.	02/02	6,344,356	Stemmer	
	29.	04/02	6,365,408	Stemmer	
	30.	04/02	6,368,861	Crameri et al.	
	31.	04/02	6,372,497	Stemmer	
	32.	04/02	6,376,246	Crameri et al.	
	33.	05/02	6,387,702	Stemmer	
	34.	05/03	6,562,594	Short	
	35.	11/01	2001/0039014	Bass	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite ¹ No.	Publication Date (MM-DD-YYYY)	Document No. Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	36.	09/95	AU703264			
	37.	10/98	AU724698			
	38.	10/97	AU729505			
	39.	06/98	AU732146			
	40.	05/89	EP0316018			
	41.	07/91	EP0439182			
	42.	07/93	EP0552266			
	43.	05/94	EP0596918			
	44.	01/95	EP0633944			
	45.	09/01	EP0876509			
	46.	04/99	EP0911396			
	47.	12/99	EP0963434			

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48.	04/01	EP1094108			
49.	05/01	EP1103606			
50.	06/01	EP1108781			
51.	06/01	EP1108783			
52.	09/01	EP1130093			
53.	10/01	EP1138763			
54.	10/01	EP1149904			
55.	10/01	EP1149905			
56.	05/89	EP316018			
57.	03/90	WO90/02809			
58.	08/91	WO91/12341			
59.	04/92	WO92/07075			
60.	02/93	WO93/03183			
61.	06/94	WO94/13804			
62.	07/95	WO95/20039			
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65.	03/96	WO96/09411			
66.	12/96	WO96/41865			
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68.	06/97	WO97/20078			
69.	06/97	WO97/20950			
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71.	04/98	WO98/13485			
72.	06/98	WO98/27230			
73.	09/98	WO98/38297			
74.	10/98	WO98/45331			
75.	10/98	WO98/48024			

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81.	10/00	WO00/61740			
82.	01/01	WO01/00234			
83.	04/01	WO01/23401			
84.	05/01	WO01/32712			
85.	06/01	WO01/46476			
86.	09/01	WO01/70947			
87.	10/01	WO01/73000			
88.	10/01	WO01/75767			
89.	05/01	WO1103606			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite ¹ No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, volume-issue number(s), page(s), publisher, city and/or country where published.	T ⁶
	90.	Airaksinen, Antero, et al. "Modified base compositions at degenerate positions of a mutagenic oligonucleotide enhance randomness in site-saturation mutagenesis." Nucleic Acids Research (1998), 26(2), 576-581.	
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	93.	Arnold F. H. and Moore J.C. Optimizing industrial enzymes by directed evolution. Advances in Biochemical Engineering Biotechnology. 1997;58:1-14, Review.	
	94.	Arnold F. H. When blind is better: protein design by evolution. Nature Biotechnology. Jul. 16, 1998:617-618.	

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	Docket Number: D1460-32US	
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